10/644,264

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	93	"5845077".uref.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:33
L2	92	1 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:23
L3	8	2 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:34
L4	92	2 or "5845077.pn"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:38
L5	6171307	2 an d "5845077.pn"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:39
L6	0	2 and "5845077.pn"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:39
L7	2	("5845077").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 08:39
L8	0	("0002or7").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 08:39

EAST Search History

L9	94	2 or 7	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:40
L10	14	9 and (log near2 file$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:44
L11	3	10 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 08:45
L12	3	("7000230").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 08:45
L13	1	"20030158897".PN.	US-PGPUB	OR	ON	2006/03/03 08:46
L14	4	("2003/0158897").URPN.	USPAT	OR	ON	2006/03/03 08:46

EAST Search History

L15	206	("20010056429" | "20020026461" | "20020032768" | "20020057297" | "20020174147" | "20030120659" | "20030158897" | "4514800" | "4641274" | "4674040" | "4739477" | "4815029" | "4910663" | "4933880" | "4962475" | "5072412" | "5187786" | "5191645" | "5195183" | "5204947" | "5206951" | "5237680" | "5249275" | "5274803" | "5297249" | "5297283" | "5313631" | "5313646" | "5333317" | "5339423" | "5339424" | "5341478" | "5369766" | "5369778" | "5377323" | "5381547" | "5390325" | "5408665" | "5410688" | "5434975" | "5436637" | "5440744" | "5446842" | "5459865" | "5481722" | "5504898" | "5517655" | "5535389" | "5542070" | "5550976" | "5551035" | "5572643" | "5572648" | "5577252" | "5581686" | "5581760" | "5602996" | "5608720" | "5627979" | "5634121" | "5640544" | "5659729" | "5664178" | "5682536" | "5689703" | "5706501" | "5721824" | "5740439" | "5742504" | "5745683" | "5758184" | "5758358" | "5761408" | "5761683" | "5764984" | "5764985" | "5778372" | "5784555" | "5798757" | "5802304" | "5806079" | "5815830" | "5826265" | "5835777" | "5838906" | "5842018" | "5845077" | "5845090" | "5854630" | "5859973" | "5864819" | "5907704" | "5911776" | "5915112" | "5922072" | "5940075" | "5950010" | "5963964" | "5987480" | "5991710" | "5999740" | "6014135" | "6016520" | "6026379" | "6026416" | "6031989" | "6044205" | "6052710" | "6054987" | "6072870" | "6078326" | "6078327" | "6081610" | "6084585" | "6091417" | "6094657"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 08:48

EAST Search History

L16	1	"4514800".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:48
L17	1	"4641274".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:49
L18	1	"4674040".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:49
L19	1	"20030158897".PN.	US-PGPUB	OR	ON	2006/03/03 08:49
L20	1	"20030120659".PN.	US-PGPUB	OR	ON	2006/03/03 08:49
L21	0	("7000230").URPN.	USPAT	OR	ON	2006/03/03 08:50
L22	1	"20030120659".PN.	US-PGPUB	OR	ON	2006/03/03 08:50
L23	1	"6748385".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:50
L24	0	("6976251.uref.").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 08:50
L25	2	("6976251").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 09:00
L26	1	"5752042".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:51
L27	1	"6151708".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:52
L28	1	"5845077".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:53
L29	1	"5654901".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:54
L30	1	"5586322".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:55
L31	1	"5586304".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:56
L32	1	"5548645".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:56
L33	1	"5528490".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:57
L34	1	"5495411".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:58
L35	1	"5473772".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:58

EAST Search History

L36	1	"5390247".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:59
L37	1	"5267171".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:59
L38	1	"5155484".PN.	USPAT; USOCR	OR	ON	2006/03/03 08:59
L39	20910	(707/1,3,10,100,102,203).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 09:01
L40	16243	39 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:01
L41	2393	40 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:01
L42	16	41 and (signature near3 attributes)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:13
L43	1	"5790677".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:09
L44	1	"6078912".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:09
L45	1	"6061741".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:09
L46	1	"6240407".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:10
L47	1	"6324544".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:10
L48	1	"6363377".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:11
L49	1	"6167408".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:12

EAST Search History

L50	17	41 and software near4 (updat$4 near4 (tool or manager or agent or crawler))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:21
L51	784	collect$4 near3 (information near3 software)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:22
L52	81	collect$4 near3 (information near3 software near1 application$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 09:22
L53	57	52 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:05
L54	1	"4558413".PN.	USPAT; USOCR	OR	ON	2006/03/03 09:37
L55	37143	xml newar2 file same signature$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:00
L56	105	xml near2 file same signature$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:00
L57	48	56 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:02
L58	3	57 and crc	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:01

EAST Search History

L59	214	xml and signatures and crc	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:04
L60	141	59 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:12
L61	3	xml same signatures same crc	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:04
L62	0	61 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:05
L63	418	(signatur$1 near4 attributes) and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:05
L64	78	63 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:06
L65	4	64 and crc	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:11
L66	687	version near2 signature$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:12

EAST Search History

L67	490	66 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:53
L68	43	67 and crc	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:13
L69	4	68 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:12
L70	39	68 not 69	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:19
L71	0	70 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:15
L72	0	70 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:19
L73	2	("20030200207").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:22
L74	2	("20040031030").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:34

EAST Search History

L75	0	("74andxml").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:25
L76	0	74 and xml	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:25
L77	1	74 and log	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:53
L78	1683	(xml near2 files) same database	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:53
L79	1006	78 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:53
L80	0	79 and updat$3 near3 sotware	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:54
L81	90	79 and updat$3 near3 software	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 10:54

Displaying records #1 through 10 out of 33

Result # 1 Relevance:

Dynamic Client Provisioning for Software Update Scanning

14-Dec-2005 IPCOM000132421D English

ABSTRACT To ensure that a computer system has the necessary versions for a succ scan, a provisioning tool has been created to check for the current versions. This tool e system meets all prerequisite conditions for successful scanning. Another ...

Result # 2 Relevance:

Method of the software update for auto file recovery system -

2005-03-09 IPCOM000099019D English

A method to update CIM providers installed by an install program which has auto recov

Result # 3 Relevance:

File Format for Packaging of System Software Updates

2000-03-01 IPCOM000013231D English

Disclosed is a description of a specialized file format which is well suited for conveying l of system-level software (such as BIOS images, diagnostics, device drivers, manageme and important information about the software updates. The format is ...

Result # 4 Relevance:

Method to Control Software-Update Applications

1987-04-01 IPCOM000039139D English

A method is described to enable a program update process to automatically apply only updates that are required by a user based on his current system level. Software update licensed program products are packaged together on the same distribution media. ...

Result # 5 Relevance:

Software Installation and Update via Digital Audio Broadcast (DAB)

2001-04-14 IPCOM000014837D English

The disclosed idea revolves around the usage of DAB (Digital Audio Broadcast) data cha transmitting software packages and updates of software packages to a large number of cost effective, efficient, and timely fashion. Currently, delivering software ...

Result # 6 Relevance:

Method to automatically retrieve and install tape drive software upda service console

2005-04-21 IPCOM000124466D English

A method is disclosed to automatically perform tape drive software updates using a ser tape controller, and a central software repository.

Result # 7 Relevance:

Baseline Software Update Scanning Using Managed Computer Configu

20-Jan-2006 IPCOM000133287D English

The invention presents a method for conducting a baseline scan for identifying best pra

that have not yet been approved for a computer. The invention introduces a scanning t a computer for a list of updates that have been approved for the computer ...

Result # 8 Relevance:

Selective Software Update

1990-02-01 IPCOM000099747D English

Disclosed is a program for allowing selective updating from directory to directory. This eliminates back level code problems. All files on an individual workstation are verified t with a minimum of file transfers (*).

Result # 9 Relevance:

Method for Creation of a Control Software Update Application on Gene Distribution Media

1987-02-01 IPCOM000038586D English

A generalized procedure is described to create update diskettes for distribution to custo procedure provides for 1) changed target files for multiple Licensed Program Products (identified by an automated procedure; 2) changed target files to be ordered ...

Result # 10 Relevance:

Method for General Error Recovery While Applying Software Updates

1987-04-01 IPCOM000039143D English

A method is described which permits an automatic software update process to be able t and recover from errors that can occur either while the updates are being applied or aft applied. Software updates for multiple Licensed Program Products (LPPs) ...

Displaying page 1 of 4 << FIRST | < BACK | NEXT > | LAST >>

Search query: software update

New search | Modify this search | Search within current results

Some of the search results on this page contain characters not found English/Western European fonts. These results may not display proj having fonts installed which support that language.

All instances of information containing these characters are marked with a small ve shown to the left.

Displaying records #11 through 20 out of 33

Result # 11 Relevance:

Efficient run-time 'applet' for software update distribution in a netwo

2002-04-15 IPCOM000015907D English

This proposal relates to the addition of information to be used in client-server interactic efficient and maximised client-side processing of an applet or similar. Currently, for XM forth, a client device, such as PC or PDA etc., may request an ...

Result # 12 Relevance:

Transactional update of software levels in a dynamic code loading en

2004-02-25 IPCOM000022109D English

This article describes a system which can avoid inconsistent sets of executable code or loaded and used while updates to the same set of code or data are potentially being pe same time. For example: the problem exists with traditionally dynamically ...

Result # 13 Relevance:

Wireless Multi-Purpose Inter-Vehicle Data Sharing

16-Jul-2001 IPCOM000005021D English

Inter-vehicle data sharing will allow the entire active fleet of vehicles to exchange usefu between vehicles. The critical feature of this technology is that a vehicle's function can and continuously improved by sharing data with other vehicles.

Result # 14 Relevance:

Saving of stable PDP contexts in case of Hardware or Software failure

2003-05-01 IPCOM000012287D English

In order to enable data transfer to/from the mobile station in UMTS, a so-called PDP co established in SGSN and in the GGSN. A PDP context in the SGSN comprises all the infc required to transport data packets from the Iu-interface to the Gn-interface and vice ...

Result # 15 Relevance:

QoS Markup Tags

2001-11-16 IPCOM000014962D English

The current Internet provides only one level of global service to all users--best-effort se Although a user may have a high-speed connection to the desktop, the user is still limit bandwidth available between the desktop and the remote site. This bandwidth can ...

Result # 16 Relevance:

General Framework for Managing Bandwidth Usage for Heterogeneou Work for a Mobile Client

1998-10-01 IPCOM000123380D English

We were presented with the problem of representing and managing general, heterogen work from client/server applications for mobile clients of a client/server network. We de clients as clients that may be connected to the server over connections of ...

Result # 17 Relevance:

Process by Which Usage and Networking Characteristics Determine D Pervasive Devices Updating of PvC Devices with Software Loads

1998-12-01 IPCOM000123502D English

Pervasive computing devices are occasionally disconnected from their network. These c occasionally require software updates (executables) or data updates (deemed essential enterprise). The problem is, how to determine when to provide such updates (or ...

Result # 18 Relevance:

Dynamic Write Capability for Read Only Storage Using Flash Memory

1994-09-01 IPCOM000113592D English

Disclosed is a method to update the contents of a Read-Only Storage (ROS) module usi I/O load/store instructions and a flash memory.

Result # 19 Relevance:

Host Channel Micro-sequencer

1991-09-01 IPCOM000121685D English

Described is a host channel micro-sequencer facility that provides a programmable and channel interface which permits corrections to a specific emulation through software up facility also provides different control unit emulations based on a single ...

Result # 20 Relevance:

Optimized Infiniband Completion Queue Interface

2005-05-10 IPCOM000124838D English

Described is an optimized interface between the hardware (i.e. Infiniband Host Channel (HCA)) and software (i.e. HCA Driver) components for InfiniBand (IB) Completion Queu IB Completion Queues inform consumers that previously initiated I/O requests have ...

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Search query: software update

New search | Modify this search | Search within current results

Search Session History

Fri, 3 Mar 2006, 12:26:04 PM EST

Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Search Query Display

Run Search Reset

Recent Search Queries

#1 ((update software)<in>metadata)

#2 ((update software)<in>metadata) and xml

#3 (update and software and manager<IN>metadata)

#4 (update softweare manager<IN>metadata)

#5 (update software agent<IN>metadata)

#6 (update software agent<in>metadata)

#7 (updating software<IN>metadata)

#8 (vadim<IN>metadata)

Clear Session History

Indexed by Inspec

Terms used **software updating** and **xml** Found **34,915** of **171,143**

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Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Best 200 shown Relevance scale

1 From UML models to software performance results: an SPE process based on XML interchange formats

Connie U. Smith, Catalina M. Lladó, Vittorio Cortellessa, Antinisca Di Marco, Lloyd G. Williams

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available: pdf(356.26 KB) Additional Information: full citation, abstract, references, index terms

The SPE process uses multiple performance assessment tools depending on the state of the software and the amount of performance data available. This paper describes two XML based interchange formats that facilitate using a variety of performance tools in a plug-and-play manner thus enabling the use of the tool best suited to the analysis. The Software Performance Model Interchange Format (S-PMIF) is a common representation that is used to exchange information between (UML-based) software design ...

Keywords: SPE process, UML, XML, automated model building, interchange format, methods and tools, performance model, software performance engineering, tool interoperability

2 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

3 Technical papers: software architecture: An infrastructure for the rapid development of XML-based architecture description languages

Eric M. Dashofy, André van der Hoek, Richard N. Taylor

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Publisher: ACM Press

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

Research and experimentation in software architectures over the past decade have yielded a plethora of software architecture description languages (ADLs). Continuing innovation indicates that it is reasonable to expect more new ADLs, or at least ADL features. This research process is impeded by the difficulty and cost associated with developing new notations. An architect in need of a unique set of modeling features must either develop a new architecture description language from scratch or unde ...

4 Poster session 2: Software infrastructure for multi-modal virtual environments

Brian Goldiez, Glenn Martin, Jason Daly, Donald Washburn, Todd Lazarus

October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Virtual environment systems, especially those supporting multi-modal interactions require a robust and flexible software infrastructure that supports a wide range of devices, interaction techniques, and target applications. In addition to interactivity needs, a key factor of robustness of the software is the minimization of latency and more importantly, reduction of jitter (the variability of latency). This paper presents a flexible software infrastructure that has demonstrated robustness i n ...

Keywords: augmented environments, haptics, latency, multi-modal interfaces, olfaction, software infrastructure, virtual environments

5 Workshop: Documenting software systems with views II: an integrated approach based on XML

Jochen Hartmann, Shihong Huang, Scott Tilley

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available: pdf(785.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Software engineers rely on program documentation as an aid in understanding the functional nature, high-level design, and implementation details of complex applications. Without such documentation, engineers are forced to rely solely on source code. This is a time-consuming and error-prone process, especially when one considers the amount of information assimilation and domain mapping that is required to understand the architecture of a large-scale software system. This paper describes an integr ...

Keywords: MSR MEDOC, XML, reverse engineering, software documentation

6 A fine-grained access control system for XML documents

Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati

May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(330.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

7 XML: XVM: a bridge between xml data and its behavior

Quanzhong Li, Michelle Y. Kim, Edward So, Steve Wood

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(377.35 KB) Additional Information: full citation, abstract, references, index terms

XML has become one of the core technologies for contemporary business applications, especially web-based applications. To facilitate processing of diverse XML data, we propose an extensible, integrated XML processing architecture, the XML Virtual Machine (XVM), which connects XML data with their behaviors. At the same time, the XVM is also a framework for developing and deploying XML-based applications. Using component-based techniques, the XVM supports arbitrary granularity and provides a high ...

Keywords: XML, XML applications, XML processing, XVM, components, web applications

8 XML transactions: XMLTM: efficient transaction management for XML documents

Torsten Grabs, Klemens Böhm, Hans-Jörg Schek

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(343.12 KB) Additional Information: full citation, abstract, references, citings, index terms

A common approach to storage and retrieval of XML documents is to store them in a database, together with materialized views on their content. The advantage over "native" XML storage managers seems to be that transactions and concurrency are for free, next to other benefits. But a closer look and preliminary experiments reveal that this results in poor performance of concurrent queries and updates. The reason is that database lock contention hinders parallelism unnecessarily. We therefore invest ...

Keywords: XML storage managers, transaction management for XML

9 Document Databases: Requirements for XML document database systems

Airi Salminen, Frank Wm. Tompa

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(141.89 KB) Additional Information: full citation, abstract, references, citings, index terms

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data

exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...

Keywords: XML, XML database systems, data definition, data manipulation, data modelling, structured documents

10 Articles: UbiData: requirements and architecture for ubiquitous data access

Abdelsalam Helal, Joachim Hammer
December 2004 **ACM SIGMOD Record**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(223.13 KB) Additional Information: full citation, abstract, references

Mobile users today demand ubiquitous access to their data from any mobile device and under variable connection quality. We refer to this requirement as *any-time, any-where* data access whose realization requires much more support for asynchronous and disconnected operation than is currently available from existing research prototypes or commercial products. Furthermore, the proliferation of mobile devices and applications, forges the additional requirement of device- and application-transp ...

11 Live documents with contextual, data-driven information components

Anke Weber, Holger M. Kienle, Hausi A. Müller
October 2002 **Proceedings of the 20th annual international conference on Computer documentation**
Publisher: ACM Press
Full text available: pdf(627.10 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

Keywords: Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

12 Features: Caching XML Web Services for Mobility

May 2003 **Queue**, Volume 1 Issue 3
Publisher: ACM Press
Full text available: pdf(311.20 KB) html(35.15 KB) Additional Information: full citation, index terms

13 Continuous release and upgrade of component-based software

Tijs van der Storm
September 2005 **Proceedings of the 12th international workshop on Software configuration management SCM '05**
Publisher: ACM Press
Full text available: pdf(619.47 KB) Additional Information: full citation, abstract, references

We show how under certain assumptions, the release and delivery of software updates can be automated in the context of component-based systems. These updates allow features or fixes to be delivered to users more quickly. Furthermore, user feedback is more accurate, thus enabling quicker response to defects encountered in the field.Based on a formal product model we extend the process of continuous integration to enable the agile and automatic release of software components component. From such r ...

14 diffX: an algorithm to detect changes in multi-version XML documents
Raihan Al-Ekram, Archana Adma, Olga Baysal
October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**
Publisher: IBM Press
Full text available: pdf(116.40 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the diffX algorithm for detecting changes between two versions of an XML document. The identified changes are reported as a script of edit operations. The script, when applied to the first version of the XML document, will produce the second version. The goal is to optimize the runtime of mapping the nodes between the two versions and to minimize the size of the edit script. To achieve this goal an isolated tree fragment mapping technique is used, in order to iteratively iden ...

15 Standardization in IT: Inter-organizational document exchange: facing the conversion problem with XML
Luis Martín Díaz, Erik Wüstner, Peter Buxmann
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(470.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Information exchange processes are often characterized by the need of translating from one data format into another in order to achieve compatibility between information systems. A conversion problem often arises when exchanging files between applications of different software vendors or when incorporating legacy business data into new standard software. In this paper we want to survey the conversion problem in the field of multi-organizational networks, since participants often use different da ...

Keywords: Java, XML, conversion problem, information systems, inter-organizational document exchange, standardization, supply chain management

16 Models and components: Towards a unified formal model for supporting mechanisms of dynamic component update
Junrong Shen, Xi Sun, Gang Huang, Wenpin Jiao, Yanchun Sun, Hong Mei
September 2005 **Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**
Publisher: ACM Press
Full text available: pdf(268.30 KB) Additional Information: full citation, abstract, references, index terms

The continuous requirements of evolving a delivered software system and the rising cost of shutting down a running software system are forcing researchers and practitioners to find ways of updating software as it runs. Dynamic update is a kind of software evolution that updates a running program without interruption. This paper covers the fundamental issues of the mechanisms of dynamic update theoretically. Based on a similarity analysis of many typical approaches to dynamic update during the pa ...

Keywords: CSP, architectural connector, dynamic update, software architecture

17 Conflict scheduling of transactions on XML documents

Stijn Dekeyser, Jan Hidders

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(305.86 KB) Additional Information: full citation, abstract, references

In the last few years an interest in native XML databases has surfaced. With other authors we argue that such databases need their own provisions for concurrency control since traditional methods are inadequate to capture the complicated update-behavior that is possible for XML documents. Ideally, updates should not be limited to entire document trees, but should involve subtrees and even individual elements. Providing a suitable scheduling algorithm for semistructured data can significantly imp ...

Keywords: XML, concurrency control, conflict scheduler, path locks, semistructured data, serializability, transaction model

18 A comprehensive approach for the development of modular software architecture description languages

Eric M. Dashofy, André van der Hoek, Richard N. Taylor

April 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(3.51 MB) Additional Information: full citation, abstract, references, index terms

Research over the past decade has revealed that modeling software architecture at the level of components and connectors is useful in a growing variety of contexts. This has led to the development of a plethora of notations for representing software architectures, each focusing on different aspects of the systems being modeled. In general, these notations have been developed without regard to reuse or extension. This makes the effort in adapting an existing notation to a new purpose commensurate ...

Keywords: ArchStudio 3, Architecture description languages, XML, xADL 2.0

19 Service infastructure and network management: Using code collection to support large applications on mobile devices

Lucian Popa, Irina Athanasiu, Costin Raiciu, Raju Pandey, Radu Teodorescu

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(252.95 KB) Additional Information: full citation, abstract, references, index terms

The progress of mobile device technology unfolds a new spectrum of applications that challenges conventional infrastructure models. Most of these devices are perceived by their users as "appliances" rather than computers and accordingly the application management should be done transparently by the underlying system unlike classic applications managed explicitly by the user. Memory management on such devices should consider new types of mobile applications involving code mobility such as mobile ...

Keywords: caching, code collection, garbage collection

20 XML query and programming languages: XJ: facilitating XML processing in Java

Matthew Harren, Mukund Raghavachari, Oded Shmueli, Michael G. Burke, Rajesh Bordawekar, Igor Pechtchanski, Vivek Sarkar
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(293.50 KB) Additional Information: full citation, abstract, references, index terms

The increased importance of XML as a data representation format has led to several proposals for facilitating the development of applications that operate on XML data. These proposals range from runtime API-based interfaces to XML-based programming languages. The subject of this paper is XJ, a research language that proposes novel mechanisms for the integration of XML as a first-class construct into Java™. The design goals of XJ distinguish it from past work on integrating XML support into ...

Keywords: Java, XML, language design

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1 Sensor network software update management: a survey

Chih-Chieh Han, Ram Kumar, Roy Shea, Mani Srivastava

July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(158.17 KB) Additional Information: full citation, abstract, references, index terms

Software management is a critical task in the system administration of enterprise-scale networks. Enterprise-scale networks that have traditionally comprised of large clusters of workstations are expanding to include low-power ad hoc wireless sensor networks (WSN). The existing tools for software updates in workstations cannot be used with the severely resource-constrained sensor nodes. In this article, we survey the software update techniques in WSNs. We base our discussion around a conceptual ...

2 Dynamic software updating

Michael Hicks, Scott Nettles

November 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 6

Publisher: ACM Press

Full text available: pdf(622.69 KB) Additional Information: full citation, abstract, references, index terms

Many important applications must run continuously and without interruption, and yet also must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, ease of use, and low cost.We present an approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner---code, data, and types may be updated, at programmer-determined ...

Keywords: Dynamic software updating, typed assembly language

3 A software package for sparse orthogonal factorization and updating

Ove Edlund

December 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(490.01 KB) Additional Information: full citation, abstract, references, index terms

Although there is good software for sparse QR factori zation, there is little support for updating and downdating, something that is absolutely essential in some linear

programming algorithms, for example. This article describes an implementation of sparse LQ factorization, including block triangularization, approximate minimum degree ordering, symbolic factorization, multifrontal factorization, *and* updating and downdating. The factor Q is not retained. The updating algorithm expands the n ...

Keywords: Sparse matrix, downdating, orthogonal factorization, software, updating

4 Dynamic software updating

Michael Hicks, Jonathan T. Moore, Scott Nettles

May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01**, Volume 36 Issue 5

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms

Many important applications must run continuously and without interruption, yet must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, and ease of use.

We present a new approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner (code, data, and types may be updated, at programmer-determined times ...

5 Mutatis mutandis: safe and predictable dynamic software updating

Gareth Stoyle, Michael Hicks, Gavin Bierman, Peter Sewell, Iulian Neamtiu

January 2005 **ACM SIGPLAN Notices , Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '05**, Volume 40 Issue 1

Publisher: ACM Press

Full text available: pdf(273.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Dynamic software updates can be used to fix bugs or add features to a running program without downtime. Essential for some applications and convenient for others, low-level dynamic updating has been used for many years. Perhaps surprisingly, there is little high-level understanding or language support to help programmers write dynamic updates effectively.To bridge this gap, we present Proteus, a core calculus for dynamic software updating in C-like languages that is flexible, safe, and predictab ...

Keywords: capability, dynamic software updating, proteus, type inference, updateability analysis

6 Agents, interactions, mobility and systems: Software update via mobile agent based programming

Lorenzo Bettini, Rocco De Nicola, Michele Loreti

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(534.28 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a system that permits maintaining the software installed on several heterogeneous computers distributed over a network by taking advantage of the mobile agent paradigm. The applications are installed and updated only on the central server. When a new release of an application is installed on the server, agents are scattered

along the network to update the appl ication on the clients.To build a prototype system we use X-KLAIM, a programming language specifically designed to pr ...

Keywords: distributed software update, mobile agents, mobile code

7 A rule-based language for programming software updates

Martin Erwig, Deling Ren
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Rule-based programming**
Publisher: ACM Press
Full text available: pdf(118.18 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the design of a rule-based language for expressing changes to Haskell programs in a systematic and reliable way. The update language essentially offers update commands for all constructs of the object language (a subset of Haskell). The update language can be translated into a core calculus consisting of a small set of basic updates and update combinators. The key construct of the core calculus is a scope update mechanism that allows (and enforces) update specifications for the defin ...

Keywords: type change, type correctness, update program, update safey

8 From the editors: An update on software updates

David J. Brown
March 2005 **Queue**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(82.27 KB) html(8.08 KB) Additional Information: full citation, abstract, index terms

The way software is delivered has changed.

9 PLI workshops: A rule-based language for programming software updates

Martin Erwig, Delin Ren
December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12
Publisher: ACM Press
Full text available: pdf(182.21 KB) Additional Information: full citation, abstract, references

We describe the design of a rule-based language for expressing changes to Haskell programs in a systematic and reliable way. The update language essentially offers update commands for all constructs of the object language (a subset of Haskell). The update language can be translated into a core calculus consisting of a small set of basic updates and update combinators. The key construct of the core calculus is a scope update mechanism that allows (and enforces) update specifications for the defin ...

Keywords: Haskell, type change, type correctness, update program, update safey

10 Full papers: Tree bitmap: hardware/software IP lookups with incremental updates

Will Eatherton, George Varghese, Zubin Dittia
April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(189.39 KB) Additional Information: full citation, abstract, references

Even with the significant focus on IP address lookup in the published literature as well as focus on this market by commercial semiconductor vendors, there is still a challenge for

router architects to find solutions that simultaneously meet 3 criteria: scaling in terms of lookup speeds as well as table sizes, the ability to perform high speed updates, and the ability to fit into the overall memory architecture of an Level 3 forwarding engine or packet processor with low systems cost overhead. I ...

11 Models and components: Towards a unified formal model for supporting mechanisms of dynamic component update

Junrong Shen, Xi Sun, Gang Huang, Wenpin Jiao, Yanchun Sun, Hong Mei

September 2005 **Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**

Publisher: ACM Press

Full text available: pdf(268.30 KB) Additional Information: full citation, abstract, references, index terms

The continuous requirements of evolving a delivered software system and the rising cost of shutting down a running software system are forcing researchers and practitioners to find ways of updating software as it runs. Dynamic update is a kind of software evolution that updates a running program without interruption. This paper covers the fundamental issues of the mechanisms of dynamic update theoretically. Based on a similarity analysis of many typical approaches to dynamic update during the pa ...

Keywords: CSP, architectural connector, dynamic update, software architecture

12 Continuous release and upgrade of component-based software

Tijs van der Storm

September 2005 **Proceedings of the 12th international workshop on Software configuration management SCM '05**

Publisher: ACM Press

Full text available: pdf(619.47.KB) Additional Information: full citation, abstract, references

We show how under certain assumptions, the release and delivery of software updates can be automated in the context of component-based systems. These updates allow features or fixes to be delivered to users more quickly. Furthermore, user feedback is more accurate, thus enabling quicker response to defects encountered in the field.Based on a formal product model we extend the process of continuous integration to enable the agile and automatic release of software components component. From such r ...

13 Applying data mining to software maintenance records

Jelber Sayyad Shirabad, Timothy C. Lethbridge, Stan Matwin

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(140.30 KB) Additional Information: full citation, abstract, references, index terms

In a system maintained over a long time period, as is the case for legacy software, there will be many unknown and non-trivial relationships among components. Finding such hidden relationships may help software engineers in their maintenance activities. In this paper we present an approach whereby we mine software update records to find relationships between files that are changed together. The generalized models we present as results are obtained by using features extracted from different sourc ...

14 A cooperative approach to support software deployment using the software dock

Richard S. Hall, Dennis Heimbigner, Alexander L. Wolf

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.43 MB) Additional Information: full citation, references, citings, index terms

Keywords: Java, configuration management, mobile agents, software deployment

15 Gamma system: continuous evolution of software after deployment

Alessandro Orso, Donglin Liang, Mary Jean Harrold, Richard Lipton

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '02**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(141.81 KB) Additional Information: full citation, abstract, references, citings

In this paper, we present the GAMMA system, which facilitates remote monitoring of deployed software using a new approach that exploits the opportunities presented by a software product being used by many users connected through a network. GAMMA splits monitoring tasks across different instances of the software, so that partial information can be collected from different users by means of light-weight instrumentation, and integrated to gather the overall monitoring information. ...

16 Software support: VMSTAR: synthesizing scalable runtime environments for sensor networks

Joel Koshy, Raju Pandey

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: pdf(159.40 KB) Additional Information: full citation, abstract, references, index terms

Sensor networks are being deployed at massive scales, containing a range of platforms. Programming paradigms for sensor networks should meet the attendant challenges of scale and heterogeneity. Researchers have considered virtual machines as a means to address these challenges. However, in order to satisfy the resource limitations of sensor nodes, they export only a minimal set of services to the application programmer. This makes applications of even moderate complexity difficult to implement. ...

Keywords: network reprogramming, operating systems, programming languages, software synthesis, virtual machines, wireless sensor networks

17 Partitioning Hardware and Software for Reconfigurable Supercomputing Applications: A Case Study

Justin L. Tripp, Anders A. Hanson, Maya Gokhale, Henning Mortveit

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available: pdf(352.41 KB) Publisher Site Additional Information: full citation, abstract

Often reconfigurable systems are reported to have 10× to 100× speedup over that of a software system. However, the reconfigurable hardware must usually be combined with software to form an entire system. This system integration presents a hardware/software co-design problem with many system engineering issues. Here, we present traffic acceleration on the Cray XD1 supercomputer and describe the costs involved in different hardware/software trade-offs.

Keywords: Supercomputing, System Integration, HW/SW Co-design

18 Microcomputer software exchange at Michigan State University

Beverly Fico Brown

September 1985 **Proceedings of the 13th annual ACM SIGUCCS conference on User services: pulling it all together**

Publisher: ACM Press

Full text available: pdf(998.76 KB) Additional Information: full citation, abstract, index terms

One of the major concerns of microcomputer users is the expense of obtaining software that meets their needs. With the development of "Freeware" or User Supported Software, users have the opportunity to obtain software which can be evaluated completely before purchase. Michigan State University has two distribution sources for microcomputer software. A User Supported Software Library, placed on a microcomputer, enables members of the University community to copy a package and ev ...

19 Reconciling environment integration and software evolution

Kevin J. Sullivan, David Notkin

July 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(2.89 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Common software design approaches complicate both tool integration and software evolution when applied in the development of integrated environments. We illustrate this by tracing the evolution of three different designs for a simple integrated environment as representative changes are made to the requirements. We present an approach that eases integration and evolution by preserving tool independence in the face of integration. We design tool integration relationships as separate component ...

Keywords: abstract behavior type, behavior abstraction, component independence, environment integration, event mechanism, implicit invocation, integrated environment, mediator, mediator/event design, software evolution, tool integration

20 Software protection: Software piracy prevention through diversity

Bertrand Anckaert, Bjorn De Sutter, Koen De Bosschere

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Publisher: ACM Press

Full text available: pdf(166.30 KB) Additional Information: full citation, abstract, references, index terms

Software piracy is a major concern for software providers, despite the many defense mechanisms that have been proposed to prevent it. This paper identifies the fundamental weaknesses of existing approaches, resulting from the static nature of defense and the impossibility to prevent the duplication of digital data. A new scheme is presented that enables a more dynamic nature of defense and makes it harder to create an additional, equally useful copy. Furthermore it enables a fine-grained cont ...

Keywords: authentication, copyright protection, diversity, identification, intellectual property protection, software piracy prevention, tailored updates